

a.) Amendments to Specification

*Replace the paragraph beginning at page 8, line 6, in the specification as originally filed, with the following rewritten paragraph:*

-- Fig. 1A also illustrates a second configuration, configuration 2 integration. In this second configuration, the source system 100 and the tunable Fabry-Perot system 200 are integrated together. In the preferred embodiment, they are installed together on a common bench B-2. Further, in the current implementation, the source system 100 and the tunable Fabry-Perot filter system are integrated together on the common bench B-2 and installed in a common hermetic package to yield a tunable source 10. This tunable source 10 generates a tunable signal 30, which is used to illuminate a ~~target~~ target, located in this second configuration at position S-2. The target either scatters or absorbs spectral components of the tunable signal as it is scanned across the scan band. This allows the detector system 300 to resolve the time varying signal as the spectral response of the target S-2.—

*Replace the paragraph beginning at page 13, line 6, in the specification as originally filed, with the following rewritten paragraph:*

The tunable signal, which is not coupled to the detector 140 by the tap 149 is launched by a fourth lens component ~~146~~ 147 into the fiber endface 104 of the optical fiber 102.

*Replace the paragraph beginning at page 17, line 7, in the specification as originally filed, with the following rewritten paragraph:*

The Fig. 10 embodiment further includes, preferably, two isolators 120A, 120B. These isolate respective tunable filters 116A, 116B. Lens components 180, 182, 184, and 186 are used to couple the optical signal generated by the SLEDS 110A-110E, through the first tunable filter 116A and the second tunable filter 116B of the tunable filter system 200, and then, through the wavelength tap 149 and the power tap ~~158~~ 152 to the endface 104 of the optical fiber 102.

*Replace the paragraph beginning at page 19, line 7, in the specification as originally filed, with the following rewritten paragraph:*

-- Fig. 12B shows an operationally similar tunable optical filter system ~~40~~ 20, for the purposes of the present invention. Reference numerals have been used for functionally equivalent parts. The differential between the two designs lies in the design of the detector system 300. This second embodiment utilizes only a single detector 324, 54 that detects both the optical reference and the optical signal. In this illustration, the package is not shown for clarity.--